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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/596,658	06/20/2006	Masahiko Kadokura	40635	8886
52054 PEARNE & GO	7590 05/25/201 ORDON LLP	EXAMINER		
1801 EAST 9T		HUNTLEY, DANIEL CARROLL		
SUITE 1200 CLEVELAND, OH 44114-3108			ART UNIT	PAPER NUMBER
			3737	
			NOTIFICATION DATE	DELIVERY MODE
			05/25/2010	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patdocket@pearne.com dchervenak@pearne.com

	Application No.	Applicant(s)				
Office Action Summers	10/596,658	KADOKURA, MASAHIKO				
Office Action Summary	Examiner	Art Unit				
	DANIEL HUNTLEY	3737				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)⊠ Responsive to communication(s) filed on 20 Ju	ine 2006					
	action is non-final.					
<i>i</i> —	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
closed in accordance with the practice under Lx pane Quayle, 1935 C.D. 11, 455 C.G. 215.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-4</u> is/are pending in the application.	☑ Claim(s) <u>1-4</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdray	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-4</u> is/are rejected.						
7) Claim(s) is/are objected to.	<u></u>					
·						
Application Papers						
9) The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>20 June 2006</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa	te				

DETAILED ACTION

Drawings

The drawings are objected to because some of the figures include boxes not properly labeled as to the elements that they represent. Reference numerals alone are insufficient. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

The abstract of the disclosure is objected to because it contains legal phraseology such as means plus function language, and also contains more than 150 words. Correction is required. See MPEP § 608.01(b).

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Claim Objections

Claims 3 and 4 are objected to because of the following informalities: In claim 3, line 3, 'tightening' should be 'tightens'. Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-4 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Applicant asserts that the claim elements "first power transmission means", "drive means", "second power transmission means", "swing means", "first fixing means", and a "second fixing means" are means (or step) plus function limitations that invoke 35 U.S.C. 112, sixth paragraph. However, it is unclear whether the claim elements are means (or step) plus function limitations that invokes 35 U.S.C. 112, sixth paragraph, because they do not include the phrase, "means for" or "step for". If applicant wishes to have the claim limitation treated under 35 U.S.C. 112, sixth paragraph, applicant is required to:

(a) Amend the claim to include the phrase "means for" or "step for" in accordance with these guidelines: the phrase "means for" or "step for" must be modified by functional language and the phrase must **not** be modified by sufficient structure, material, or acts for performing the claimed function; or

(b) Show that the claim limitation is written as a function to be performed and the claim does **not** recite sufficient structure, material, or acts for performing the claimed function which would preclude application of 35 U.S.C. 112, sixth paragraph. For more information, see MPEP § 2181.

Regarding claim 2, in view of the phrase 'formed with' in line 2, it is unclear as to whether the term is inclusive or exclusive and, further, the entire claim appears to be directed more to a method of making the probe.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1 and 3 are rejected under 35 U.S.C. 102(b) as being anticipated by US Publication 2002/0062080 A1 (Okawa('080).

In re claims 1 and 3, Okawa('080), teach an ultrasonic probe comprising; an ultrasonic transducer unit emitting ultrasonic waves while swinging ([0011]), a motor generating a power for swinging said ultrasonic transducer unit ([0006]), a first power transmission means connected to the rotating shaft of said motor and transmitting said power ([0014]-[0016]; [0059]-[0062]), a drive means connected to said first power transmission means and rotated by said transmitted power ([0011]), a cable-like second power transmission means transmitting said power by the rotation of said drive means ([0014]-[0016]), a swing means (abstract), on which said ultrasonic

transducer unit is mounted, swinging said ultrasonic transducer unit with said power due to the rotation of said drive means transmitted through said second power transmission means, a first fixing means to which both ends of the second power transmission means are fixed and which is fixedly attached to said swing means together with said fixed second power transmission means ([0051]), a second fixing means fixing, to said drive means, an opposite end of said fixed and ring-shaped second power transmission means, which is opposed to the fixed end ([0019]). Additionally, Okawa('080) teach a second fixing means comprising a screw that tightens power transmission means to drive means ([0019])

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 2 and 4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Okawa('080).

In re claim 2, Okawa('080) teach a fixing means using the tension of the drive belt, made out of an adjustable material that would be deformable by external forces, and having a plurality of holes for synchronizing the drive pulley with the drive belt for reliable transducer control. It is noted that Okawa('080) fail to teach penetrating holes that are interconnected with one

another. However, using overlapping holes and grooved surfaces as a method of integrally fixing materials together is well known in the art and would have been an obvious design choice in the absence of any further showing of criticality or unexpected result.

In re claim 4, Okawa('080) do not expressly teach a screw having a plate-like portion for protecting second power transmission means from damage during screw tightening. However, washers of varying sizes are well known in the fastener art and are used for shielding from screw tightening damage and would have been an obvious design choice in the absence of any further showing of criticality or unexpected result.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DANIEL HUNTLEY whose telephone number is (571)270-1217. The examiner can normally be reached on Monday through Friday, 7:30-4, alternating Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian Casler can be reached on 571-272-4956. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Ruth S. Smith/ Primary Examiner, Art Unit 3737

/DANIEL HUNTLEY/ Examiner, Art Unit 3737